

CLAIMS

What is claimed is:

1. A recessed unit equipment luminaire comprising:
 - a housing;
 - a battery;
 - a charging/emergency switching circuit electrically connected to said battery;
 - a directional lamp mounted within said housing, said directional lamp being electrically connected to said battery through said charging/emergency switching circuit; and
 - a cover having an opening to allow light from said directional lamp to be directed therethrough.
2. The unit equipment luminaire of claim 1 further having a reflector assembly mounted within said housing along the light path between said directional lamp and said cover opening, said reflector assembly having a reflective surface which redirects a portion of the light emitted from said directional lamp.
3. The unit equipment luminaire of claim 2 wherein said reflector assembly is substantially semi-frustoconical in shape and is oriented with a wide end proximate to said directional lamp.
4. The unit equipment luminaire of claim 3 wherein said reflector assembly has a plurality of planar reflecting surfaces which approximate said semi-frustoconical shape.
5. The unit equipment luminaire of claim 4 wherein said reflector assembly has a central reflector section and side reflector sections, said central reflector section sloping downward from the top of said directional lamp to said cover opening, said side reflector sections

located on either side of said central reflector section, said side reflector sections sloping downward and outward from said central reflector section to said cover opening.

6. The unit equipment luminaire of claim 5 wherein said central reflector section has a plurality of reflecting surfaces which redirect light to specific regions.
7. The unit equipment luminaire of claim 1 further having a louvered lens placed in the light path between said directional lamp and said cover opening.
8. The unit equipment luminaire of claim 2 wherein said cover opening is circular, said reflector assembly is in a fixed relation with said directional lamp, and said reflector assembly further has a circular front edge which is rotatably engaged by said cover along said circular.
9. The unit equipment luminaire of claim 7 further having:
 - a second directional lamp mounted within said housing, said second directional lamp being electrically connected to said battery through said charging/emergency switching circuit;
 - a second reflector assembly mounted within said housing along the light path between said directional lamp and said cover opening, said reflector assembly having a circular front edge and a reflective surface which redirects a portion of the light emitted from said second directional lamp;
 - said cover further having a second circular opening which rotatably engages said second reflector assembly circular front edge.
10. A luminaire for illuminating an oblong shaped area comprising:
 - a housing;
 - a directional lamp mounted within said housing, said directional lamp being aimed at said oblong shaped area;

a cover having an opening to allow light from said directional lamp to be directed toward
said oblong shaped area; and

a reflector assembly mounted within said housing along the light path between said
directional lamp and said cover opening, said reflector assembly being
substantially semi-frustoconical in shape oriented with a wide end proximate to
said directional lamp and having a reflective surface which redirects a portion of
the light emitted from said directional lamp toward said oblong shaped area.

11. The luminaire of claim 10 wherein said reflector assembly has a plurality of planar reflecting surfaces which approximate said semi-frustoconical shape.
12. The luminaire of claim 11 wherein said reflector assembly has a central reflector section and side reflector sections, said central reflector section sloping downward from the top of the directional lamp to the cover opening, said side reflector sections located on either side of said central reflector section, said side reflector sections sloping downward and outward from said central reflector section to said cover opening.
13. The luminaire of claim 12 wherein said central reflector section has a plurality of reflecting surfaces which direct light to specific regions in said oblong shaped area.
14. The luminaire of claim 10 further having a louvered lens placed in the light path between said directional lamp and said cover opening.
15. The luminaire of claim 10 wherein said cover opening is circular, said reflector assembly is in a fixed relation with said directional lamp, and said reflector assembly further has a circular front edge which is rotatably engaged by said cover along said circular opening, whereby an alternate area may be illuminated by rotating said reflector assembly and said directional lamp with respect to said cover.

16. A reflector assembly for use with a directional lamp for illuminating an oblong shaped area comprising a substantially semi-frustoconical shaped reflector oriented with a wide end proximate to said directional lamp, said reflector having a reflective surface which redirects a portion of the light emitted from said directional lamp toward said oblong shaped area.
17. The reflector assembly of claim 16 wherein said reflector assembly has a plurality of planar reflecting surfaces which approximate the semi-frustoconical shape.
18. The luminaire of claim 17 wherein said reflector assembly has a central reflector section and side reflector sections, said side reflector sections located on either side of said central reflector section, said side reflector sections sloping downward and outward from said central reflector section.
19. The luminaire of claim 18 wherein said central reflector section has a plurality of reflecting surfaces which redirect light to specific areas.
20. The luminaire of claim 16 further having a louvered lens placed in the light path between said directional lamp and said cover opening.
21. A unit equipment luminaire for recessed mounting behind the plane of a wall for illuminating a path of egress area comprising:
- a housing mounted behind an opening in the plane of the wall;
 - a battery;
 - a charging/emergency switching circuit electrically connected to said battery;
 - a substantially semi-frustoconical reflector assembly having a wide end and an narrow end;
 - a wall mount lens having a collecting reflector;

a directional lamp mounted within said housing, said directional lamp being located at said reflector assembly wide end and aimed generally toward said collecting reflector, said directional lamp being electrically connected to said battery through said charging/emergency switching circuit; and

a cover mounted over said wall opening, said cover having an opening to allow light from said collecting reflector to exit said housing.

22. The unit equipment luminaire of claim 21 wherein said reflector assembly has a plurality of planar reflecting surfaces which approximate the semi-frustoconical shape.
23. The unit equipment luminaire of claim 22 wherein said reflector assembly has a central reflector section and side reflector sections, said side reflector sections located on either side of said central reflector section, said side reflector sections sloping outward from said central reflector section.
24. The unit equipment luminaire of claim 21 wherein said collecting reflector is concave shaped and extends from the top of said wide end of said reflector assembly to the bottom of said narrow end of said reflector assembly, said collecting reflector having an inner edge which follows the curvature of said reflector assembly and an outer edge which extends outward from said plane of the wall a distance proportional to the inward extension of said inner edge.
25. A unit equipment housing and battery box assembly comprising:

a shallow rectangular shaped housing having a bottom wall, a back wall, and an open front, said bottom wall having an opening along the intersection of said bottom wall and said back wall; and

a battery box having a front wall, a back wall, side walls extending between said front wall and said back wall, a closed bottom, an open top, and a flange extending around the upper edge of the front and side walls;

said battery box being received within said housing bottom wall opening such that the bottom of said battery box flange contacts the inner surface of the housing bottom wall along the periphery of the bottom wall.

26. A unit equipment housing assembly comprising:

a shallow rectangular shaped housing having a bottom wall, and side walls, said bottom wall having an opening along the intersection of said bottom wall and said back wall, each side wall having an inward projections which is parallel with said housing bottom wall thereby forming a channel between said projection and said bottom wall;

a battery box having a front wall, a back wall, side walls extending between said front wall and said back wall, and an open top, a flange extending around the upper edge of the front and side walls, and a wedge shaped protuberance extending outward and upward from said flange, said back wall extending upward above the upper edge of the front and side walls and having a mortise type slot in said upward extension; and

a thin rectangular chassis for supporting a charger/emergency switching circuit, said chassis having a tenon type projection along a back edge of the chassis;

said battery box being received within said housing bottom wall opening such that the bottom of said battery box flange contacts the inner surface of said housing bottom wall along the periphery of said bottom wall opening;

said chassis being received within said housing channels such that said a front edge of said chassis is held in place by the back edge of said battery box wedge shaped protuberance and said tenon projection mates with said mortise slot.

27. A housing for mounting behind the plane of a wall or ceiling, said housing comprising:

a front portion, said front portion to lie substantially in the plane of the wall or ceiling; at least one side wall having a front edge lying along said front portion, said side wall having a thickness gauge formed on the outside surface thereof, said thickness gauge indicating distance from said front edge; and

a plurality of break-away tabs located around the periphery of said front portion, said break-away tabs extending outward along the plane of said front portion.

28. A fully recessed unit equipment luminaire comprising:

at least one battery;

a battery box having walls for containing said battery and an opening for receiving said battery;

a housing having walls defining a chamber and an open front, one of said walls having an opening, said housing and said battery box being attached such that said housing wall opening is in alignment with said battery box opening;

an charger chassis having a charger/emergency switching circuit mounted thereto, said charger chassis being received within and attached to said housing over said battery box opening such that said charger chassis provides a barrier between said housing chamber and said battery;

a directional lamp electrically connected to said battery through said charger/emergency switching circuit, said lamp also being received within said housing; and

a cover closing said housing open front, said cover having a light exit aperture positioned to allow light from said lamp to illuminate an area external to said luminaire.